## PATENT COOPERATION TREATY

# **RECEIVED**

\(\tau_1\)	AY 2 3 2005 <b>PCT</b>			
To:	LY AND COOPERATION OF TRANSMITTAL OF atent Diveriffernational Search Report and THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION			
	(PCT Rule 44.1)			
	Date of mailing (day/month/year) 19/05/2005			
Applicant's or agent's file reference	FOR FURTHER ACTION			
X16455 V	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No.	International filing date (day/month/year)			
PCT/US2005/000023	19/01/2005			
Applicant  ELI LILLY AND COMPANY				
1. X  The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.  Filling of amendments and statement under Article 19:  The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):  When? The time limit for filing such amendments is normally 2 months from the date of transmitted of the International Search Report, however, for more details, see the notes on the accompanying sheet.  Where? Directly to the international Bureau of WIPO, 34 chemin des Colombettes  1211 Geneva 20, Switzerland, Fascimile No.; (41–22) 740.14.35  For more detailed instructions, see the notes on the accompanying sheet.  The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.  With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:  the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.  no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.  Reminders  Shortly after the expiration of 18 months from the priority date, the international application, or of the priority claim, must reach the international Bureau as provided in Rules 2004.1 and 905x3, respectively, before the completion of the technical preparations for international publication, or of the priority claim, must reach the international publication, or of the priority claim, must reach the international publication, or of the priority claim, must reach the international publication.  The applicant may submit comments on an informational				

Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

Arne Nielsen-Hannerup

Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

#### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

#### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

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#### What documents must/may accompany the amendments?

#### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

#### NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

# The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
   "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
   claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
   "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
   "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged"
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

#### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence)

#### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide

Notes to Form PCT/ISA/220 (second sheet) (January 1994)

# PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION as well	see Form PCT/ISA/220 I as, where applicable, Item 5 below.				
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)				
PCT/US2005/000023	19/01/2005	26/01/2004				
Applicant						
ELI LILLY AND COMPANY						
This International Search Report has been according to Article 18. A copy is being tre	n prepared by this international Searching Autionalities to the international Bureau.	nonty and is transmitted to the applicant				
This International Search Report consists	of a total of sheets.					
X It is also accompanied by	a copy of each prior art document cited in this	report.				
language in which it was filed, unti	international search was carried out on the basess otherwise indicated under this item.					
this Authority (Rul		ation of the international application furnished to				
b. X With regard to any nucleo	tide and/or amino acid sequence disclosed	in the International application, see Box No. I.				
2. X Certain claims were four	nd unsearchable (See Box II)					
3. Unity of invention is lack	ting (see Box III).					
4. With regard to the title,						
the text is approved as sul						
	ned by this Authority to read as follows: IAZOLIDINEDIONE FOR TREATING	C TVDD 3 DIZBETTC				
002 01 101-22 1880 A 7.1	industrial for the principle of the prin	G III Z DIRDEIOS				
5. With regard to the abstract,						
X the text is approved as sub	mitted by the applicant.					
the text has been establish may, within one month from	ed, according to Rule 38.2(b), by this Authorit n the date of malling of this international searc	y as It appears in Box No. IV. The applicant th report, submit comments to this Authority.				
6. With regard to the drawings,						
a. the figure of the drawings to be pu	blished with the abstract is Figure No.					
as suggested by th	• •					
	Authority, because the applicant falled to sugg					
	Authority, because this figure better character published with the abstract.	izes the invention.				
	position mar are wearest.					

Form PCT/ISA/210 (first sheet) (January 2004)

International application No.

PCT/US2005/000023

Box	No. I	Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)
1.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed nation, the international search was carried out on the basis of:
	a.	type of material
		x a sequence listing table(s) related to the sequence listing
	b.	format of material
	U.	X   in written format
		In computer readable form
	c.	ume of filing/furnishing
		contained in the international application as filed
		filed together with the international application in computer readable form  furnished subsequently to this Authority for the purpose of search
	$\overline{}$	
2.	Ш	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3.	Addil	ional comments:
		•

International Application No PCT/US2005/000023

A CLASS	TELO ATION OF CHILD FOR MARKET					
ÎPC 7	A61K38/18 A61K31/443 A61P3/	10				
According to International Patent Classification (IPC) or to both national classification and IPC						
	SEARCHED					
IPC 7	ocumentation searched (classification system tollowed by classific A61K	alion symbols)				
	lion searched other than minimum documentation to the extent tha					
	tala base consulted during the international search (name of data		1)			
EPO-In	ternal, WPI Data, PAJ, EMBASE, BIO	SIS, CHEM ABS Data				
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT					
Category v	Citation of document, with Indication, where appropriate, of the r	elovani passages	Relevant to daim No.			
A	US 6 329 403 B1 (ODAKA HIROYUKI 11 December 2001 (2001-12-11)	ET AL)				
A	US 6 046 202 A (ANTONUCCI ET AL) 4 April 2000 (2000-04-04)					
A	√WO 03/011213 A (ELI LILLY AND CO GLASEBROOK, ANDREW, LAWRENCE; HA LISA, JA) 13 February 2003 (2003 cited in the application	MMOND,				
Funh	er documents are listed in the continuation of box C.	Patent family members are listed in	паллех,			
"T' later document published after the international filing date or priority date and not in conflict with the application but considered to be of particular relevance.  "E' earlier document but published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention filing date.  "Y' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is campined with one or more other such documents, such combination being obvious to a person skilled in the art.  "T' later document published after the international filing date or priority date and not in conflict with the application but called to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand the principle or theory underlying the cited to understand						
Date of the actual completion of the international search Date of mailing of the international search report						
10	10 May 2005 19/05/2005					
Name and m	ailing address of the ISA European Patent Office, P.B. 5818 Patenthan 2 NL - 2280 HV Rijswijk	Authonzed officer				
	Tel (-31-70) 340-2040, Tx. 31 651 epo ni, Fax. (+31-70) 340-3016  Durrenberger, A					

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# International application No. PCT/US2005/000023

## INTERNATIONAL SEARCH REPORT

Box II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. χ	Claims Nos.; because they relate to subject matter not required to be searched by this Authority, namely;
	Although claims 1-8 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically:
	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Inter	rnational Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3	As only some of the required additional search fees were timely paid by the applicant, this international Search Report overs only those claims for which fees were paid, specifically claims Nos.:
4. D	No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is estricted to the Invention lirst mentioned in the claims; it is covered by claims Nos.:
Remark o	The additional search tees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

information on patent family members

International Application No
PCT/US2005/000023

						2005/000023
	Patent document cited in search report		Publication date		Patent family member(s)	. Publication date
J	US 6329403	B1	11-12-2001	AU	754740 B2	21-11-2002
i				AU	4291499 A	17-01-2000
				BR	9911656 A	20-03-2001
ĺ				CA	2329004 A1	06-01-2000
				CN	1305376 A	25-07-2001
				EP	1093370 A1	25-04-2001
				ID	27415 A	05-04-2001
				WO	0000195 A1	06-01-2000
				JP	2000080047 A	21-03-2000
				NO	20006630 A	26-02-2001
				US	2002086885 A1	04-07-2002
				ZA	200006262 A	02-11-2001
	US 6046202	А	04-04-2000	US	5972944 A	26-10-1999
				US	6046222 A	04-04-2000
				US	5874454 A	23-02-1999
				US	5457109 A	10-10-1995
				us	6130216 A	10-10-2000
				AU	754479 B2	14-11-2002
				AU	7589698 A	21-12-1998
				BR	9809968 A	01-08-2000
				CA	2283319 Al	10-12-1998
	•			EP	0984780 A1	15-03-2000
				ΗU	0003876 A2	28~01-2002
				JP	2002511859 T	16-04-2002
				NO	995932 A	03-12-1999
				PL	348773 A1	17-06-2002
				WO	9855121 A1	10-12-1998
				ZA	9804798 A	29-12-1998
				AU	731690 B2	05-04-2001
				AU	7494998 A	08-12-1998
				BR	9809120 A	01-08-2000
				CA	2282473 Al	19-11-1998
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				HU	0003397 A2	28-01-2002
				JP	2001525827 T	11-12-2001
				NO	995549 A	12-11-1999
				NZ	522885 A	30-07-2004
				PL	336764 A1	17-07-2000
				MO	9851305 A1	19-11-1998
				ZA	9804084 A	20-11-1998
				AT	198045 T	15-12-2000
				AU	678291 B2	22-05-1997
				AU	7724994 A	03-04-1995
				CA	2168751 A1	23-03-1995
				CN	1131391 A ,C	18-09-1996
				CZ	9600722 A3	16-10-1996
				DE	69426421 D1	18-01-2001
				DE	69426421 T2	19-04-2001
				DK	719143 T3	05-03-2001
				EP	0719143 A1	03-07-1996
				ES	2154685 T3	16-04-2001
				GR	3035430 T3	31-05-2001
				HU	75873 A2	28 <b>-</b> 05-1997
				JP	. 9502722 T	18-03-1997
				NO	961052 A	14-03-1996
				NZ NZ	273806 A 336689 A	30-08-1999 24-11-2000

information on petent family members

International Application No
PCT/US2005/000023

Patent document dted in search report	-	Publication date	Patent family member(8)		Publication date	
US 6046202	A		PT SG SK	719143 T 67900 A1 35196 A3	30-03-2001 19-10-1999 10-12-1997	
WO 03011213	A	13-02-2003	WO US	03011213 A2 2004259780 A1	13-02-2003 23-12-2004	



## PATENT COOPERATION TREATY

.From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) 16455 Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International application No International filing date (day/month/year) Pnority date (day/month/year) 19.01.2005 PCT/US2005/000023 26.01.2004 International Patent Classification (IPC) or both national classification and IPC A61K38/18, A61K31/443, A61P3/10 Applicant **ELI LILLY AND COMPANY** 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. Ⅱ Priority ☑ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. IV Lack of unity of invention ☑ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited ☐ Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66 1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA



European Patent Office D-80298 Munich Tel +49 89 2399 - 0 Tx. 523656 epmu d Fax +49 89 2399 - 4465 **Authorized Officer** 

Durrenberger, A

Telephone No +49 89 2399-8432



# 10/587138

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2005/000023

# ¡AP20 Rec'd PCT/PTO 21 JUL 2006

_					
_	Во	x No	. I Basis of the opinion		
1.	With the	th reg	gard to the language, this opinion has been established on the basis of the international application in guage in which it was filed, unless otherwise indicated under this item.		
		lan	s opinion has been established on the basis of a translation from the original language into the following guage , which is the language of a translation furnished for the purposes of international search der Rules 12.3 and 23.1(b)).		
2.	Wit	h rec	gard to any nucleotide and/or amino acid sequence disclosed in the international application and ary to the claimed invention, this opinion has been established on the basis of:		
	a. t	ype	of material:		
		⊠	a sequence listing		
			table(s) related to the sequence listing		
	b. f	orma	at of material:		
		$\boxtimes$	in written format		
			in computer readable form		
	c. t	ıme d	of filing/furnishing:		
		Ø	contained in the international application as filed.		
			filed together with the international application in computer readable form.		
	1		furnished subsequently to this Authority for the purposes of search.		
3.		has cop	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto been filed or furnished, the required statements that the information in the subsequent or additional ies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.		
4.	. Additional comments:				
_	Во	x No	. Il Priority		
1.	Ø	doe requ	e validity of the priority claim has not been considered because the International Searching Authority is not have in its possession a copy of the earlier application whose priority has been claimed or, where uired, a translation of that earlier application. This opinion has nevertheless been established on the umption that the relevant date (Rules 43 <i>bis</i> .1 and 64.1) is the claimed priority date.		
2.		has	s opinion has been established as if no priority had been claimed due to the fact that the priority claim been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international g date indicated above is considered to be the relevant date.		
3.	Add	lition	al observations, if necessary:		

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2005/000023

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Th ob	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:					
	the entire international applica	tion,				
$\boxtimes$	claims Nos. 1-8					
be	cause:					
⊠	the said international application, or the said claims Nos. 1-8 relate to the following subject matter which does not require an international preliminary examination (specify):					
	see separate sheet					
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.					
	no international search report has been established for the whole application or for said claims Nos.					
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:					
	the written form	. 🗖	has not been furnished			
			does not comply with the standard			
	the computer readable form		has not been furnished			
			does not comply with the standard			
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.					
	See separate sheet for further details					

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No:

Inventive step (IS)

Yes: Claims

Claims

1-8

1-8

No: Claims

Industrial applicability (IA)

Yes: Claims

No: Claims

see separate sheet

2. Citations and explanations

see separate sheet

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/US2005/000023

# AP20 Rec'd PCT/PTO 21 JUL 2006

## Concerning section III

Claims 1-8 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

## Concerning section V

- 1. The following documents are referred to; the numbering will be adhered to in the rest of the procedure:
  - D1: US-B1-6 329 403 (ODAKA HIROYUKI ET AL) 11 December 2001 (2001-12-11)
  - D2: US-A-6 046 202 (ANTONUCCI ET AL) 4 April 2000 (2000-04-04)
  - D3: WO 03/011213 A (ELI LILLY AND COMPANY; GLASEBROOK, ANDREW, LAWRENCE; HAMMOND, LISA, JA) 13 February 2003 (2003-02-13)

Unless indicated otherwise reference is made to the relevant passages emphasized in the search report.

- None of the available prior art disclose the combined use of FGF-21 and a thiazolidinedione for treating type 2 diabetes, hence the subject-matter of claims 1 to 8 is novel.
- 3. The closest prior art is D1 which discloses the combined use of a thiazolidinedione and an anorectic for the treatment of type 2 diabetes, without side effects. The application differs from D1 by the combination of FGF-21 instead of an anorectic with a thiazolidinedione.
  - The problem of the application is to provide an alternative treatment for type 2 diabetes, the solution being the combination of FGF-21 and a thiazolidinedione. The technical effect observed is a synergistic anti-diabetic effect (examples 1-3).

Nothing in D1 points to the replacement of an anorectic by another agent, in

particular an agent with distinct pharmacotherapeutic effects. The skilled person is thus not inclined to replace the anorectic agent of D1 by FGF-21 disclosed in D3. In addition, a synergistic effect could not be foreseen, hence the skilled person would not have combined FGF-21 disclosed alone in D3 with a thiazolidinedione disclosed alone in D2, for the treatment of type 2 diabetes.

Hence the subject-matter of claims 1-8 is inventive.

3. For the assessment of the present claims 1-8 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

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